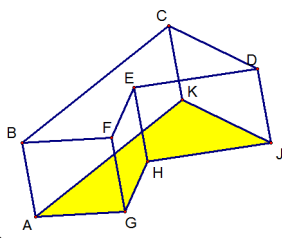


Warm-up!

Use the right prism to answer

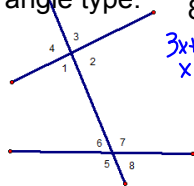
True or False

- F
T
T
T
1. \overleftrightarrow{BF} and \overleftrightarrow{CD} are skew.
 2. \overleftrightarrow{BF} and \overleftrightarrow{EH} are skew.
 3. \overleftrightarrow{EH} and \overleftrightarrow{CK} are parallel.
 4. \overleftrightarrow{BA} and \overleftrightarrow{AG} are perpendicular.

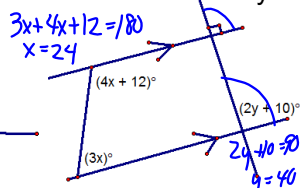


Name the angle type.

- alt int
corr.
alt ext.
5. $\angle 6$ and $\angle 2$
 6. $\angle 6$ and $\angle 4$
 7. $\angle 8$ and $\angle 4$

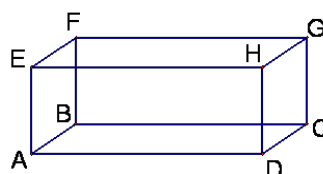


8. Solve for x and y.

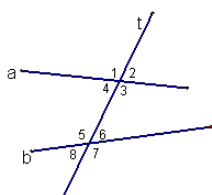


202 Review 3.1-3.4

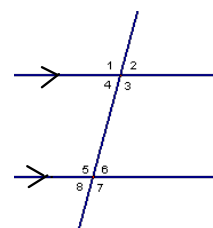
parallel lines/planes
skew lines

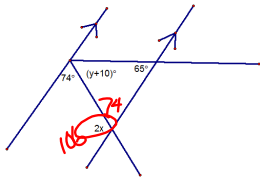


Types of Angles

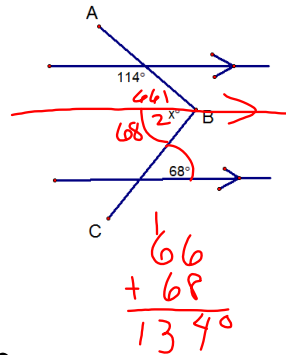


If \parallel ,
alt int \angle s \cong
corr. \angle s \cong
alt. ext \cong
If \parallel
same side int \angle
are suppl.

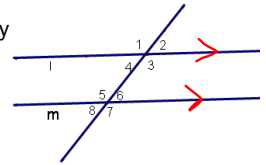




$$\begin{aligned}
 2x + 74 &= 180 \\
 2x &= 106 \\
 x &= 53 \\
 74 + 65 + y + 10 &= 180
 \end{aligned}$$



Given: $l \parallel m$
 Prove: $\angle 2$ and $\angle 7$ are supplementary



Statements	Reasons
① $l \parallel m$	① Given
② $\angle 2$ and $\angle 1$ are suppl.	② The suppl. thm
③ $\angle 1 \cong \angle 7$	③ If $l \parallel m$, alt-ext $\angle s \cong$
④ $m\angle 2 + m\angle 1 = 180$	④ def of suppl
⑤ $m\angle 1 = m\angle 7$	⑤ def of \cong
⑥ $m\angle 2 + m\angle 7 = 180$	⑥ subst.
⑦ $\angle 2$ and $\angle 7$ are suppl.	⑦ def of suppl.

Find the slope of the line that passes through (6, -3) (8, -9).

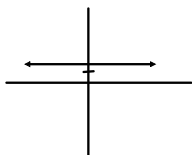
$$m = \frac{-9 - (-3)}{8 - 6} = \frac{-6}{2} = -3$$

Write the equation of the line \perp to $2x + y = 5$ and passes through (1, -7).

$$\begin{aligned}
 y &= -2x + 5 \\
 m &= \frac{1}{2} \quad (1, -7) \\
 y &= mx + b \\
 -7 &= \frac{1}{2}(1) + b \\
 -7\frac{1}{2} &= b \\
 y &= \frac{1}{2}x - 7\frac{1}{2} \\
 \boxed{x - 2y} &= \boxed{15}
 \end{aligned}$$

Horizontal line

$m = 0$ equ: $y = 2$



Vertical line

no slope
undefined equ: $x = 4$

